

ARTICULATING CONSTANT FORCE FINISHING TOOL ACTUATOR

Abstract of the Disclosure

An apparatus for maintaining constant force engagement between a finishing tool and a workpiece. The apparatus includes a biasing device that can be coupled to a robotic manipulator, and a support arm having a tool holder disposed at one end. The biasing device is actuated by
5 a pressure source to cause the support arm to rotate a finishing tool into engagement with a workpiece. A counterweight disposed on a second end of the support arm offsets the mass of the finishing tool, whereby constant force engagement between the finishing tool and workpiece may be maintained as the finishing tool is articulated to move relative to the workpiece.